

## STANDARD MODELS

| Model       | Frequency Range   | Output Power<br>$P_N$ min / typ<br>W | Gain<br>min / typ<br>dB | Harmonics<br>2nd / 3rd<br>dBc | Line Power<br>VA | Dimensions<br>(H, D)<br>19"-System | Weight<br>kg |
|-------------|-------------------|--------------------------------------|-------------------------|-------------------------------|------------------|------------------------------------|--------------|
| BSA 0140-40 | 9 kHz ... 400 MHz | 40 / 50                              | 46 / 48 ±2              | 20 / 20                       | 350              | 2 HU, 430 mm                       | 13           |

1 HU = 44.45 mm

## STANDARD SPECIFICATIONS

|                                        |                                                 |
|----------------------------------------|-------------------------------------------------|
| <b>Input Power:</b>                    | 0 dBm (1 mW) max.                               |
| <b>Overdrive Protection:</b>           | up to +10 dBm for no damage                     |
| <b>Input Impedance:</b>                | 50 Ohm nominal                                  |
| <b>Output Impedance:</b>               | 50 Ohm nominal                                  |
| <b>Input VSWR:</b>                     | <2:1 typ.                                       |
| <b>Load VSWR:</b>                      | infinite for no damage (100% mismatch tolerant) |
|                                        | $P_N$ -0.5 dB min. at VSWR 2:1                  |
| <b>Spurious (at <math>P_N</math>):</b> | -50 dBc typ. (excluding harmonics)              |
| <b>Class of Operation:</b>             | A-linear                                        |

## GENERAL

|                             |                                                                               |
|-----------------------------|-------------------------------------------------------------------------------|
| <b>RF Input:</b>            | N-f, standard on rear panel                                                   |
| <b>RF Output:</b>           | N-f, standard on rear panel                                                   |
| <b>Mains Supply:</b>        | 100 ... 240 V AC ±10%, 47 ... 63 Hz                                           |
| <b>Elapsed Time Meter:</b>  | via status display                                                            |
| <b>Ambient Temperature:</b> | 0 ... +45 °C                                                                  |
| <b>Storage Temperature:</b> | -20 ... +85 °C                                                                |
| <b>Relative Humidity:</b>   | up to 95% (non-condensing)                                                    |
| <b>Operating Altitude:</b>  | up to 2000 m above sea level                                                  |
| <b>Vibration and Shock:</b> | MIL-STD-810 G                                                                 |
| <b>Cooling:</b>             | forced air with integral blower<br>air intake from front, air exhaust at rear |

## OPTIONS

|                                      |                                         |
|--------------------------------------|-----------------------------------------|
| A) RF Monitor Outputs                | L) LAN Remote Control                   |
| B) External Dual Directional Coupler | R) RS-232C Remote Control               |
| C) IEEE-488.2 GPIB Remote Control    | S) Internal RF Switching Unit           |
| D) Front Panel RF Connectors         | U) USB Remote Control                   |
| E) RF Power Indication (digital)     | W) Liquid Cooling                       |
| F) Gain Adjustment                   | X) External Control of other Amplifiers |
| H) DC Supply                         |                                         |